

# IMPRESSION

URACA Customer Magazine 02.2011

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## News



### Groundbreaking ceremony at URACA

On 24 November 2011 the new building project will begin with the official ground-breaking ceremony at the pump manufacturer in Bad Urach. By 2015, this new construction shall provide a future-oriented production as well as an administration for the company.

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## Products

### Modular and dynamic monitoring

URACA offers a universal and modular remote control system for high-pressure systems – also with radio remote control – that can be easily connected via “plug and play” to the tool or multiple consumer systems.

In accordance with the new Machinery Directive, the URACA engineers have developed a universal, modular remote control system, which functions from the consumer to the pump unit, under the name R72 that is compatible for all high-pressure tools. The user can connect it to all work equipment like high-pressure pistols, lances or surface cleaning systems via “plug and play”, control it with one or two-handed operation or using a foot switch and, where required, switch it around in a flexibly compatible way without each tool requiring its own connection or an additional module. It also means that modifications to the control system are not required – even when multiple consumer systems are connected in-between.

This is made possible with the new, standardised and universal control concept and by technical adjustments to the consumer system. The benefits for users: ease of use, safe operation and significantly less downtimes.

In order to achieve this compatible and flexible operation, a processing module is attached to the control cabinet of the diesel or electricity-powered pump unit. The high-pressure tool is connected here through its corresponding module via a wire-guided signal. This ensures that both tools and pump units from different suppliers can be used. Furthermore, URACA offers a module for explosion protected applications. As a result of its intrinsically safe circuit, the remote control is suitable, for example, for use in refineries.

Alternatively, URACA offers radio remote control. The wireless radio transmitter hangs here, for instance, on the belt of the user and not on the tool itself. This increases freedom of movement and the flexibility of the working methods, whereby the small and compact device boasts an enormously long battery life. Naturally, the inconvenient control cable and its susceptibility to malfunction are hereby removed. Alongside typical usage with hand-held spraying lances, the remote control can also be used for hand switches e. g. for technical and economic operation and, therefore, expand the mobility of the user.

Another important special feature of the remote control system is its comprehensive safety concept. This dynamically monitors the whole system – from the equipment via the high-pressure valve to the pump. This ensures that a higher diagnostic coverage range is achieved. The user receives a comprehensive overview about the current status of the whole system both in ongoing operation and also in the event of a defect.

## Editorial

### Big plans



Dear readers, dear friends of URACA,

also today, we would like to inform you on current topics of our company. Large tasks lie ahead – and so the main focus of the current issue is on our new building project, and we would like to share with you how its development is progressing also in future. Our intention for this project is, to mainly achieve advantages for our customers and partners and to keep improving the satisfaction with our company. Therefore, we put special emphasis on continuously improving the work flow throughout the whole company, which also includes optimising the production processes. With further possibilities of developing our manpower we will be able to increase our possibilities of customer support considerably. In addition to this project, we do not want to forget special highlights of our product range and other newsworthy information.

» Continuation on Page 2



## Editorial

» Continuation  
from Page 1

Apart from a hopefully interesting read, we would now like to wish you and your families a merry Christmas and a happy new year. Let's do it together.

Johann Amon,  
Gunter Stöhr  
Corporate Management

Some people wait for times to change; others take the change into their own hands.

Dante

## Markets + Products

# Reliable provider for plant constructors in the automobile industry delivering comprehensive expertise in high-pressure technology

When automobile manufacturers and their suppliers need to reliably clean, remove the core or deburr, for example, engine or transmission parts, radiators, pistons or rims using high pressure, they often make use of high-pressure technology from the company URACA. As a manufacturer of high-pressure plunger pumps, we also offer our customers a comprehensive level of accessories such as spraying pistols and

nozzles, service valves or rotary joints. In the process, we are a reliable and competent partner for those plant constructors who integrate our solutions into their systems.

These types of system are much more than the sum of their parts: Because URACA possesses comprehensive know-how across the whole range of high-pressure technology up to 3 000 bar – from the pump and pipe work through to the nozzles – as well as in control and drive technology including connection to higher-level control systems. This expertise links together the components into reliable and functional units that provide users of new and existing systems with the greatest level of benefits and the maximum service life.

Therefore, the URACA specialists use this comprehensive level of know-how to support their partners in plant construction – from providing advice, designing the pumps and units, engineering the cleaning systems and preparing the CAD files for their construction through to the alignment of the elements in the system. This ensures smooth interfaces. As a result, the user receives a consistent level of quality and functionality across the whole system from one source.

hq



## Company

# Groundbreaking ceremony at URACA heralds major construction plans

New construction project started by the pump manufacturer from Bad Urach



f. l. t. r.: Wolfgang Maier (Managing Director Company M. Kirchhoff), Carsten Weiss (Head of Design and Development URACA), Gunter Stöhr (Managing Director URACA), Dr. Wolfgang Epp (General Director of the Chamber of Commerce and Industry Reutlingen), Anja Dobler (Head of the Environmental Office for the District Office of Reutlingen), Johann Amon (Managing Director URACA), Helmut Hirth (Architect), Elmar Rebmann (Mayor) and Robert Zimmermann (Factory Manager)

Since its foundation in 1893, URACA Pumpenfabrik GmbH & Co. KG has been at home in Bad Urach. After the company's early beginnings in a small workshop in the city, the current company premises on Sirchinger Straße were acquired and moved into in 1937. This location has been continuously developed over previous decades and has now reached the limits of its expansion possibilities due to the cramped conditions. The overall project costing around 20 million Euro, which is due to be realised in multiple phases up to 2015, should create and guarantee the prerequisites for future-oriented production and administration operations. As a result, the URACA location in Bad Urach will be systematically adapted to face the future and other developments.

The first construction phase of the project will see the new construction of an office building with approx. 5 000 m<sup>2</sup> of usable space and lay the basis for the subsequent steps. Once existing building sections have been demolished, the land will be developed for the new assembly and manufacturing areas. Additional office space will also enable the possible further expansion of the workforce. The construction work for the first section will be completed by spring 2013. Alongside the management team, the official groundbreaking ceremony on 24th November 2011 was attended by shareholders Ms. Elisabeth Dettinger and Ms. Maria Guberan, the politicians Ms. Anja Dobler, Head of the Environmental Office for the District Office of Reutlingen, and Mayor Elmar



Rebmann, as well as the Chairman of the Local City Council. Dr. Wolfgang Epp, General Director of the Chamber of Commerce and Industry in Reutlingen honoured the construction project with his visit.

The U-shaped structural shell of the new administrative building will welcome employees and visitors with two widely spaced wings. Offices, as well as meeting and social rooms, will be arranged across the four floors. The basement will house areas for the building technical services, archive, garages etc. The grid-based construction with supports and variably movable partition walls means the areas can be flexibly utilised so that it is possible to react to changed requirements at any time. The high technical standard and optimal working conditions will offer the best preconditions for a diverse range of utilisation options.

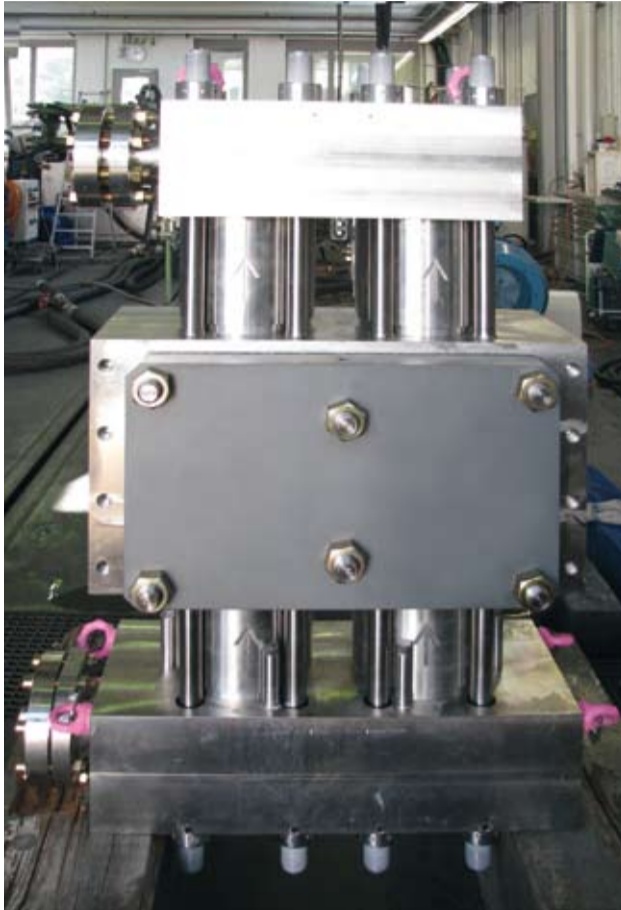
The overall shell has generous glass surfaces that are structured and divided using alucobond elements at the balustrade level. The new office construction appears light and transparent. This modern architectural construction stands for a "well positioned" and solid URACA, which is creating the prerequisites for facing up to the challenges of the future here in Bad Urach.

ja / gs

## Markets + Products

# High-performance ceramics for the oil and gas industries

Continuous product innovations for the benefit of users



Pumped media in the oil and gas industries are diverse in their composition and, therefore, in their characteristics. This is particularly true for media that land in the separator sump after crude oil processing. In the so-called "Reclaimed Oil Sump", you will find all of those substances that are pumped in with the crude oil and separated in the separator sump, for example, glycol, dissolved H<sub>2</sub>S and CO<sub>2</sub>, light and heavy hydrocarbons, asphalt, aromatic compounds and solid matter like sand, magnesium, barium and strontium. The particle sizes can reach up to 2 mm. There is also the issue of the variable concentrations of these individual elements.

This fluid composition places very special requirements on the construction method and the materials used for the pumps in terms of wear-resistance characteristics, chemical resistance and operational behaviour.

URACA has developed and delivered a pump unit for an offshore installation that satisfies these high requirements. The production of the fluid section of

the pump unit is in itself a challenge: An approx. 1.6 tonne forging block made of duplex material according to special regulations, which is expertly produced and processed by both the forger and also by our in-house mechanical production staff. The core parts of every pump unit are the valves. Ball valves are available in a hardened material and also in a high-performance ceramic. The latter is almost an all-round talent. This material is almost as light as aluminium, as hard-wearing and tough as diamonds and also resistant to chemical attacks.

The use of these types of modern materials makes it possible to achieve an increase in service life and, therefore, significantly reduce maintenance costs. As spare parts are often stored onshore and service specialists must normally be flown in with the spare parts in the event of a repair, every extension of the service life results in clear savings. Therefore, URACA is continuously working on the further development of its products in order to increase quality and customer benefits. av

## Company

### P3-10 pump unit donated for training purposes



As a result of the intervention of the VDRK, Verband der Rohr- und Kanal-Technik-Unternehmen e. V., the vocational college was able to receive an urgently needed pumping unit. Gunter Stöhr, Managing Director, presented the donation at the beginning of March to Mr. Johannes Lechner (member of the Treasury Board) for the purposes of practical training.

The state vocational college in Lauingen is one of two locations in Germany providing the college vocational training section of the apprenticeship as a specialist for pipes, sewers and industrial service. Display models and functional pumping units are indispensable in practical lessons to clearly demonstrate to apprentices the operating principles of sewer cleaning jets in glass drains, the adjustment of the jets on the pump and the topic of pressure loss. The diesel-powered unit, fitted with a powerful URACA P3-10 high-pressure pump, can achieve an operating pressure of up to 125 bar and output quantities of 160 l/min with approx 37 KW of power. ws

## 370 years of loyalty to URACA



The loyalty and commitment of 13 company employees was acknowledged in a festive atmosphere and highlighted as both a stabilising factor and an important component of the corporate culture. The company's management congratulated them on the occasion of the company's anniversary celebration and marked this special day with a festive eulogy to every person celebrating their anniversary, the presentation of an honorary certificate from the Chamber of Industry and Commerce and with an invitation for these employees, their partners and their superiors to attend a special lunch. Employees who embody values such as respect, appreciation, honesty, diligence and loyalty radiate security and stability, according to Johann Amon, Managing Director, in his welcoming speech on the 8th April this year. Shareholders Elisabeth Dettinger and Maria Guberan also paid their respects to those celebrating their anniversaries – as has been the case for many years – with their participation and expressed their gratitude in this way for the dedication shown by the employees.

Overall, it was possible to honour three 40 year anniversaries and ten 25 year anniversaries, whereby both of the Managing Directors, Johann Amon and Gunter Stöhr, thanked each of the employees personally and emphasised their close bond, as well as the mutual trust that exists between both the employees and the company. ws

## Company

# Industry providing education

The current educational partnerships with the technical secondary schools in Römerstein and Würtingen promote young talent and strengthen the location of our company. Cooperation with schools has long been considered good practice at the company URACA: The company and partner schools formulate a common programme and agree cooperation contracts for the joint promotion of education and training. This close cooperation primarily delivers one thing: better opportunities for young people in the transitional period between school and a career. The programme envisages, for example, discussion groups dealing with the process of choosing a career. Of course, apprentices can also receive concrete tips in the process, such as how an application process works or how the daily routine in the company functions. Additional company placements, tours of the company and other things are also planned. Teaching staff should also gain an insight into practical working life and will be invited in the future to an industrial placement.

The contact between URACA and the schools was organised within the framework of the Chamber of Commerce and Industry (IHK) campaign "Industry providing education".



## New apprenticeship year 2011

Six new young people from Bad Urach and the immediate vicinity were able to begin their vocational training at URACA on 1st September 2011. Alongside four prospective industrial mechanics and a commercial apprentice, one student also began his studies towards obtaining a Bachelor of Engineering based on the Reutlinger model. As a result, the family-run company from Bad Urach provides training positions for a total of 27 apprentices and offers its young talent a good chance of employment if they display the right level of performance. At the welcoming event for the new apprentices, a book prize for exceptional achievement at the vocational college during the previous year was awarded to 15 of the company's apprentices. URACA has also once again achieved a training quota this year of almost 10 percent.

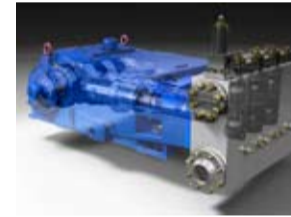


parts2clean, Stuttgart, October 2011

## Trade fair outlook

The upcoming trade fair year 2012 will feature a number of highlights: Alongside the IFAT trade fair that is being held from 7th–11th May in Munich, there is also once again the AACHEMA trade fair in Frankfurt from 18th–22nd June. Both events are pivotal and trendsetting trade fairs in their relevant markets and URACA will also be attending to present its innovative

products. Naturally, we will be represented at a variety of other specialist trade fairs and symposiums on an international level in the coming year.



## 3D pump animation

How does a plunger pump work? The new URACA 3D animation film provides an insight in the truest sense of the word: Travel through the inner workings of our high-pressure pump and discover how efficiently and effectively the URACA plunger pumps work.

Why not view the film today on YouTube. Search for our 3D animation film "Function of a Plunger Pump" or "URACA Plunger Pump" and allow yourself to be enticed into the world of displacement pumps.

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## Water supply in Bad Urach

With its many own springs and reservoirs, Bad Urach is totally self-sufficient regarding its water supply. Located in the heart of the Swabian Alb, where seven valleys meet, the city with its more than 12 500 inhabitants, supplies various surrounding Alb communities with drinking water, too. To accomplish this, water is pumped up to the 300 m higher Alb plateau – among others, URACA high-pressure plunger pumps are used.

Thanks to their extremely high efficiency, displacement pumps offer an optimal economic efficiency in relation to the amount of energy used.

